

University Medicine Rostock (www.med.uni-rostock.de) is the maximum care hospital in the region of Rostock, a high potential growth region.

The **Translational Neurodegeneration Section “Albrecht Kossel”** at the **Department of Neurology** is investigating the mechanism of physiological and pathological aging as well as the pathophysiology of neurodegeneration. Aiming for the translation of innovative therapies into the clinical neurology, the main focus of the group is the application of human cell models of pathological aging (progeria infantilis and adultorum, down-syndrome), of adult neurodegeneration (ALS/FTD) and of juvenile neurodegeneration (NBIA, chorea-acanthocytosis, Niemann pick type C, NCL). We want to combine the strategies of reducing pathological aging on the one side and the specific therapy of neurodegeneration on the other side.

Master thesis offer

“Assessing nucleocytoplasmic transport defects in FUS-ALS motor neurons”

We are seeking a student to complete a **Bachelor/Master’s Thesis** project in the Section for Translational Neurodegeneration “Albrecht Kossel” at the Department of Neurology UMR.

Our group focuses on different molecular aspects of motor neuron degeneration in amyotrophic lateral sclerosis (ALS). For this purpose, we are using patient-specific motor neurons derived from induced pluripotent stem (iPS) cells to model ALS *in vitro*.

Your task will be to analyze defects in nucleocytoplasmic transport of motor neurons bearing ALS-associated mutation in the *FUS* gene. You will carry out the differentiation and cell culture of motor neurons and analyze the cells using wide range of molecular biology tools, such as immunofluorescence staining, lentivirus production, cells transfection and transduction and quantitative fluorescence microscopy.

We are looking for a motivated and enthusiastic student with English language proficiency to join our international team. Cell culture experience is advantageous.

To apply, please send your CV and motivation letter to Sektionsleiter.akos@med.uni-rostock.de

Contact:

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